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None

(58) Field of search

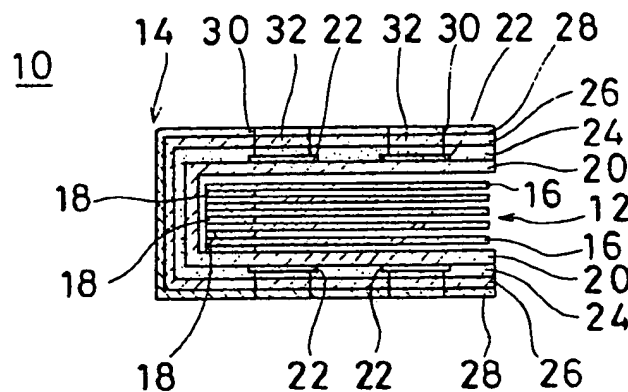
UK CL (Edition K) B6A ABB ADE

INT CL* B42D

(54) A cover for a memo pad with self-adhesive sheets

(57) A cover for a memo pad made up of sheets (16) bearing re-adherent or repositionable adhesive (18), comprises sheet material, base (20) a release layer (22) partly formed thereon, an adhesive layer (24) formed over the sheet material (20) and the release layer (22), and a label/sticker-forming substrate (26) bearing a printed layer (28). The layers (24-28) are cut at (30) to define removable, printed, self-adhesive labels. A memo pad with such a cover is for use by children.

FIG. 2



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FIG. 1

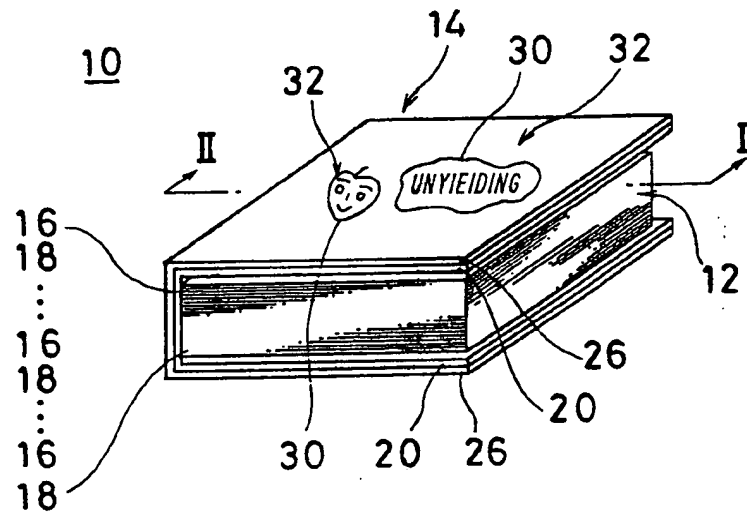


FIG. 2

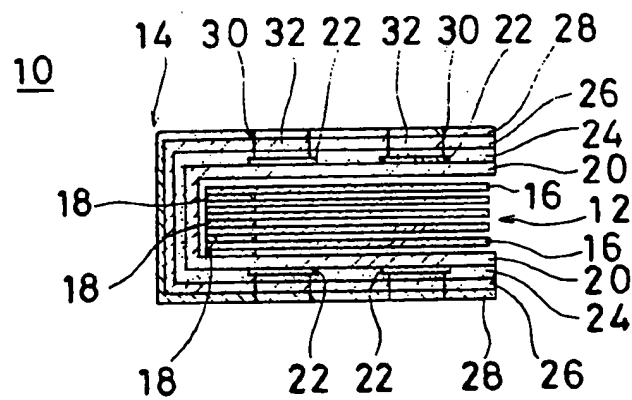


FIG. 3

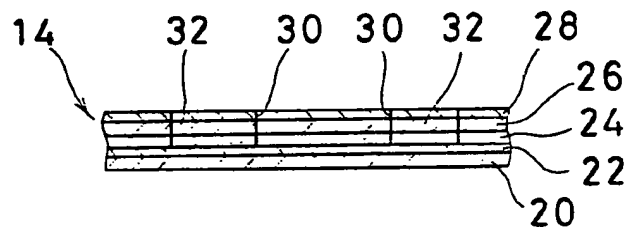
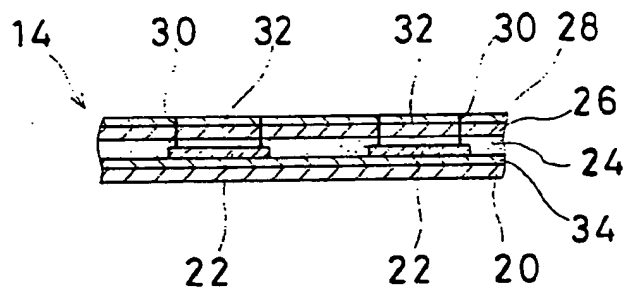


FIG. 4



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FIG. 5

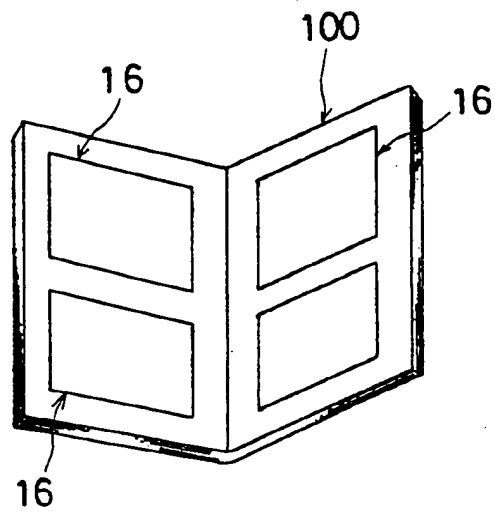


FIG. 6A

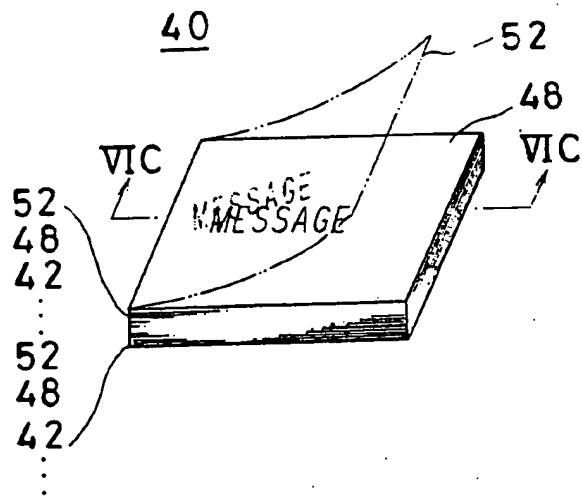


FIG. 6B

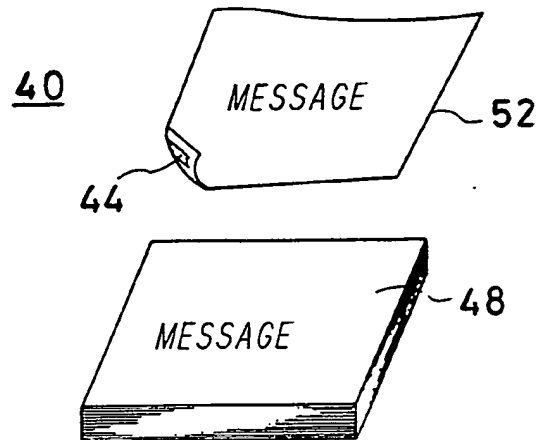
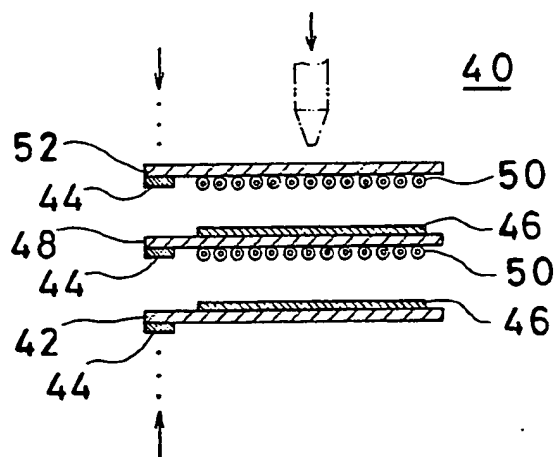


FIG. 6C



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FIG. 7A

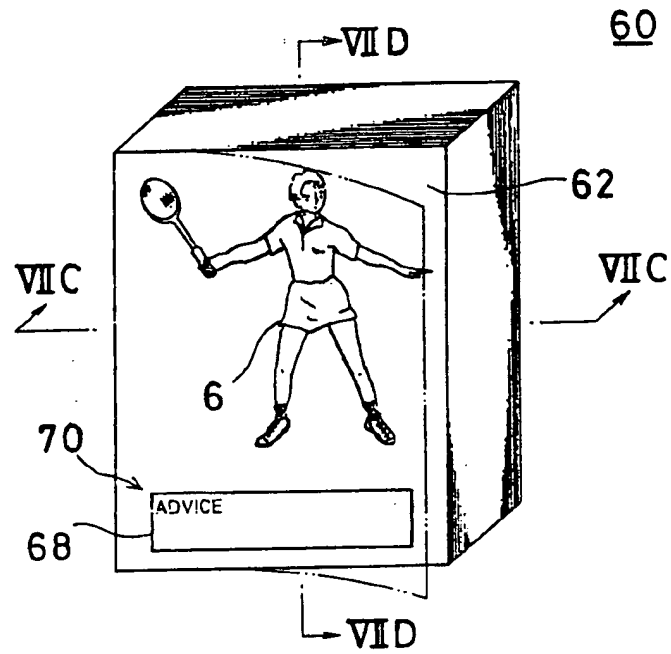
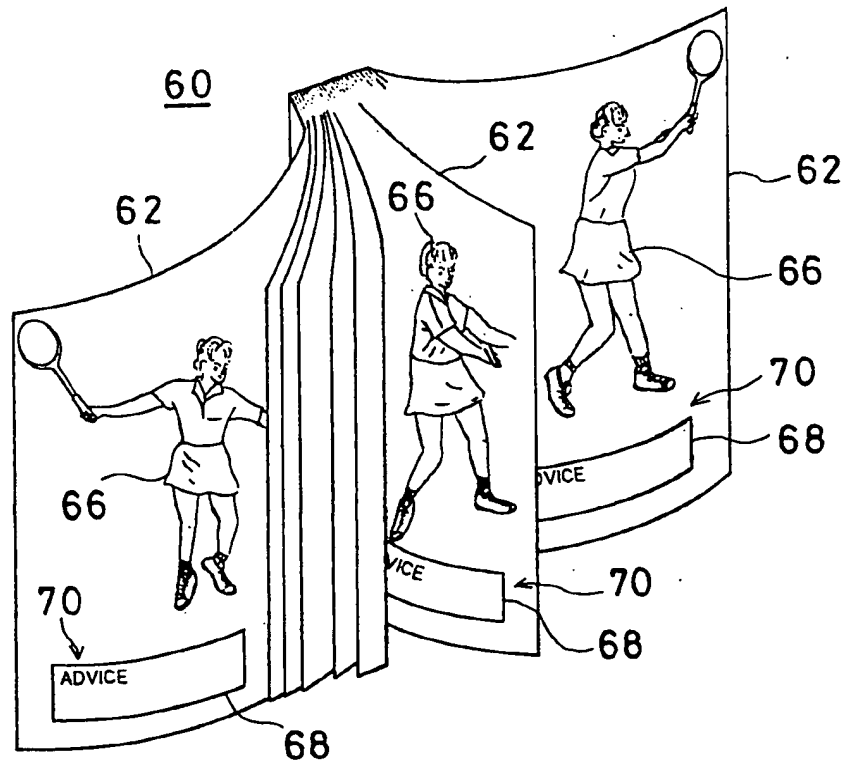


FIG. 7B



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FIG. 7C

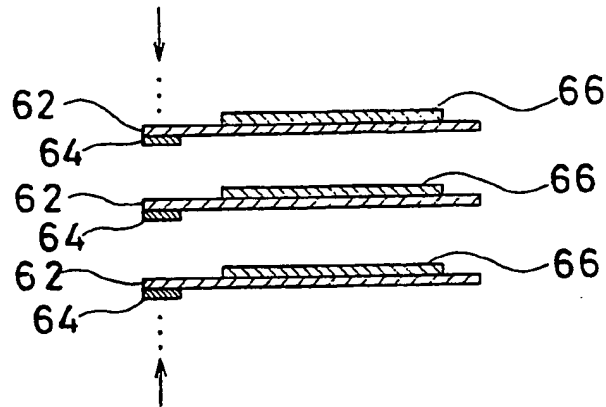
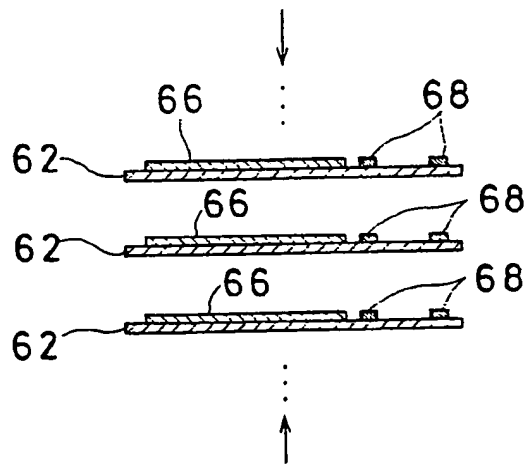


FIG. 7D



A COVER FOR A TACK MEMO PAD

The present invention relates to a cover for a tack memo pad.

Description of the Prior Art

With conventional tack memo pads, a plurality of sheet materials are bound using a cover. On the back of each sheet material a re-adherent adhesive layer is formed by coating it with a re-adherent adhesive. As material for the sheet materials and the cover, paper, for example, may be used.

Such conventional tack memo pads, however, have their covers blank or marked with the same or unified letters or the like. Hence, such prior-art tack memo pads can hardly be satisfactory when the users are children, being unable to meet their needs.

Meanwhile, there has been a growing demand for tack memo pads with covers made attractive for children.

A primary object of the present invention is, therefore, to provide a cover with pieces of releasable seal on the surface thereof, the peeled-off pieces of seal can be easily stuck at the desired positions, being thus

satisfactory for children. The present invention relates to a cover for a tack memo pad which is made by laminating a plurality of sheet materials coated on one principal surface thereof with a re-adherent adhesive, this also provided with other seat materials, a layer of release agent (release layer, hereinafter) formed by printing with a release agent, an adhesive layer formed by coating with an adhesive, a portion including a part covered by a release layer, a seal substrate formed on the surface of the adhesive layer and a print layer formed by printing on the surface of the seal substrate, and within the area the release layer is formed therein partly releasable pieces of seal are formed.

According to the present invention, there are provided pieces of partly releasable in the seal substrate formed by application of a release agent and in an adhesive layer. Hence, according to this invention, peeled-off pieces of seal can be stuck at any desired positions and, thus, a cover for a tack memo pad attractive for children can be provided, with the needs of children met satisfactorily.

The aforementioned and other objects, features, aspects and advantages of the present invention will become further apparent from reading of the detailed description below made about the preferred embodiment with reference to the accompanying drawings.

Fig. 1 is a perspective view showing a tack memo pad having a cover of the present invention;

Fig. 2 is a sectional view taken along the line II-II in Fig. 1;

Figs. 3 and 4 are both sectional views of the essential parts of a variation of the cover for the tack memo pad shown in Figs. 1 and 2;

Fig. 5 is a perspective view showing a pocketbook to which sheet materials peeled off the tack memo pad shown in Figs. 1 and 2 are stuck;

Fig. 6A is a perspective view showing a variation of tack memo pad;

Fig. 6B is a perspective view showing the condition in which a third sheet is peeled off; Fig. 6C is a sectional view taken along the line VIC-VIC in Fig. 6A;

Fig. 7A is a perspective view showing another variation of the tack memo paper;

Fig. 7B is a perspective view showing the papers comprising the tack memo pad being turned over;

Fig. 7C is a sectional view taken along the line VIIC-VIIC in Fig. 7A; and

Fig. 7D is a sectional view taken along the line VIID-VIID.

Fig. 1 is a perspective view of a tack memo pad having a cover of the invention, and Fig. 2 is a sectional view taken along the line II-II in Fig. 1.

This tack memo pad with a cover 10 comprises a tack memo pad 12 and a cover 14. The tack memo pad 12 is formed of a plurality of sheet materials, which are stuck together along one edge thereof by means of a re-adherent adhesive. The cover 14 covers the tack memo pad 12 in a wrapping mode.

This tack memo pad 12 comprises a plurality of sheet materials 16, 16, , 16, which are stuck together one after another by the use of a re-adherent adhesive layer 18. The sheet materials 16 are required to be equal in shape as well as dimensions.

This tack memo pad 12 includes, for instance, rectangle-shaped sheet materials 16. This sheet material 16 may, for example, be of paper, synthetic paper or synthetic resin film. In one principal surface of this sheet material 16 there is provided a strip of re-adherent adhesive layer 18 along one longitudinal edge thereof, the width as well as the length of the strip being predetermined. This re-adherent adhesive layer 18 may be formed by printing or coating with a re-adherent adhesive, which may be prepared by the use of, for example, a weakly adherent pressure-sensitive adhesive.

With this tack memo pad 12 it is possible to peel off

the sheet materials 16 one after another and to easily stick the sheet materials 16 to the necessary portion with the re-adherent adhesive layer 18 is present. It is even possible to peel off the materials 16 again and to stick the sheet materials 16 to the original portion.

Hence, it is possible to peel off a sheet of the page on which the necessary memo was written only from the tack memo pad 12, as shown in Fig. 5, and have it stuck to a pocketbook so that reference to it can be made readily. After use, the peeled-off sheet material 16 may be stuck to the same page of the tack memo pad 12.

In the aforementioned tack memo pad 12 it is also possible to form a release layer on the opposite principal surface of the preceding or following sheet in the corresponding dimensions by the use of, for instance, a proper release agent such as silicone resin, paraffin or some kind of wax. Such release layer may as well be provided by sticking a release paper or releasable film.

The cover 14 is now to be explained. This cover 14 is provided to cover the tack memo pad 12 outside of the tack memo pad 12.

This cover 14 includes a constituent sheet material 20 rectangular in shape, for example. The material of this constituent sheet material 20 may, for example, be paper or synthetic paper.

On one principal surface of this sheet material 20 there is formed a release layer 22. This release layer 22 may possibly be formed partly by printing a release agent such as silicone by the use of a printing machine such as an offset printer.

Also, an adhesive layer 24 is formed on the constituent sheet material 20 using an adhesive such as natural or synthetic pressure sensitive adhesive. This adhesive layer 24 is formed by coating using a proper coating machine such as curtain flow coater or reverse coater on the surface of the constituent sheet material 20 including where the aforementioned release layer 22 is formed. The adhesive layer 24 may as well be formed on the surface of the constituent sheet material 20 using a well-known printing machine such as offset printer.

This adhesive layer 24 may be formed on the constituent sheet material 20 as well as between the release layer 22 and a seal substrate to be described later. The adhesive layer 24 has a part of the aforementioned seal substrate 26 fixedly stuck to the constituent sheet material 20, while the rest thereof is simply stuck thereto.

On the surface of this adhesive layer 24 the rectangular seal substrate 26 such as of paper or synthetic paper is overlappingly formed. This seal substrate 26 is formed same as the aforementioned constituent sheet material

20 in shape as well as dimensions. On the surface of this seal substrate 26 different kinds of letters, figures or the like can be displayed by means of a printed layer 28 which can be formed by printing using a known printing machine such as offset printer.

Further, within the range in which the aforementioned release layer 22 is formed, there are formed a plurality of, for example, annular cut-line 30 in the adhesive layer 24 and the seal substrate 26 due, for example, to the cut line forming machine used. Hence, the seal substrate 26, too, is provided with a plurality of pieces of seal 32 which can be peeled off partly. The cut-line 30 need not be annular.

For these plural pieces of seal 32 there is formed a release layer 22 enough to cover the entire back surface thereof. Hence, these pieces of seal 32 can be peeled off, if so desired, easily and neatly as well.

It is also possible to have this release layer 22 formed all over one principal surface of the constituent sheet material 20 as shown in Fig. 3. Further, on one principal surface of the constituent sheet material 20 may be formed a printed layer 34 having a function of displaying proper letters, figures or the like imparted by printing using a proper printing machine such as offset printer. The letters and/or figures displayed by this printed layer 34 are same as those on the surface of the seal substrate 26.

In this case, the release layer 22 can be formed by partly printing or applying by coating a release agent such as silicone. Hence the letters and/or figures displayed by the printed layer 34 become visible when the piece of seal 32 is peeled off.

The cover 14 so formed is used to cover the tack memo pad 12 outside of the tack memo pad 12, and the tack memo pad with a cover 10 is thus completed. For that the cover 14 is folded laterally into two so that it can fit the outside of the tack memo pad 12.

That is, the cover 14 is folded into two so that the other principal surface of the constituent sheet material 20 is brought into contact with the uppermost and lowermost sheet materials 16 of the tack memo pad 12. In so doing, it is so arranged that the longitudinally edge of the lowermost sheet material 16 roughly agrees with that of the other principal surface of the constituent sheet material 20 of the cover 14. And the constituent sheet material 20 of the cover 14 and the lowermost sheet material 16 are stuck together by means of a re-adherent adhesive layer 18.

Thus, the cover 14 is placed on the outside of the tack memo pad 12.

This tack memo pad with a cover 10 has plural pieces of seal 32 on the seal substrate 26 with cut-lines 30 made therein to facilitate partial peeling. The plural pieces of

seal 32 peeled off by the user may be used as sort of labels by sticking to other objects like stationery such as note books or pencil cases. The tack memo pad with a cover 10 of the invention is thus satisfactory for children, well meeting their needs.

The tack memo pad 12 with such cover 14 may as well be of such type that the comprising papers are pressure-sensitive papers coated with some developer so that a plurality of copies can be taken at a time, the developer responding to the pen pressure in writing.

The cover for this kind of tack memo pad 40 comprises, for example, a first rectangular sheet material 42 as shown in Figs. 6A-6C. This first sheet material 42 is made of, for example, paper or synthetic paper.

On the one principal surface of this first sheet material 42 there is formed a strip of re-adherent adhesive layer 44 along and near the longitudinal edge thereof, the width and length of the strip being predetermined. This re-adherent adhesive layer 44 may be formed by application by a coating method of a re-adherent adhesive prepared by the use of, for example, a weakly adherent adhesive.

In a substantially central portion of the other central surface there is formed a layer of clay 46. This clay layer 46 is formed as a layer of solid acid, which develops the pressure-sensitive pigments present in a layer for pressure-

sensitive duplication 50 upon contact therewith as described later. This clay layer 46 helps to secure an image duplicated on the other principal surface of the first sheet material 42 by means of the layer for pressure-sensitive duplication 50. In this case, the clay layer 46 is formed by applying by a coating method atapalgite clay on the other principal surface of the first sheet material 42 with a latex of a copolymer of starch and styrene butadiene or the like as binder.

This tack memo pad 40 also comprises a second rectangular sheet material 48. The second sheet material 48 is required to be identical with the aforementioned first sheet material 42 both in shape and in dimensions. This second sheet material 48 may be of, for example, paper, synthetic paper or the like.

The pressure-sensitive duplication layer 50 is formed about the center of one principal surface of the second sheet material 48. This pressure-sensitive duplication layer 50 is formed by application of, for example, leuco dye solution as a solution of a dyestuff precursor containing pressure-sensitive pigments in a micro-capsulated form.

On one principal surface of this second sheet material 48 a strip of re-adherent adhesive layer 44 is formed except where the pressure-sensitive duplication layer 50 is present, for example, near a longitudinal edge thereof, the

width as well as the length of the strip being predetermined. This re-adherent adhesive layer 44 is formed by printing a re-adherent adhesive prepared by the use of, for example, a weakly adherent adhesive.

Further, the other principal surface of this second sheet material 48 has formed about the center thereof a layer of clay identical with the clay layer 26 formed on the other principal surface of the first sheet material 42.

This second sheet material 48 is laminated on the first sheet material 42 for the pressure-sensitive duplication layer 50 of the first sheet material 42 to be covered thereby. In this case, the other principal surface of the first sheet material 42 and one principal surface of the second sheet material 48 have their longitudinal edges overlapped neatly and laminated by means of the re-adherent adhesive layer 44.

Further, the other principal surface of the second sheet material 48 has laminated thereon a third sheet material 52 made of, for example, paper or synthetic paper for the pressure-sensitive duplication layer 50 to be covered thereby. The third sheet material 52 is formed identical with the aforementioned second sheet material 48 both in shape and dimensions, and the pressure-sensitive duplication layer 50 is formed about the center of one principal surface thereof. On one principal surface of the

sheet materials 52 except where the pressure-sensitive duplication layer 50 is formed, for example, in the vicinity of one longitudinal end of the third sheet material 52 there is formed a strip of re-adherent adhesive layer 44.

In this case, the other principal surface of the second sheet material 48 and one principal surface of the third sheet material 52 are overlapped with their longitudinal edges matched and laminated by means of the aforementioned re-adherent adhesive layer 44.

That is, the first sheet material 42, the second sheet material 48 and the third sheet material 52 are overlappingly placed one upon another in this order and laminated by means of re-adherent adhesive layers 44 to a multi-layer sheet. The tack memo pad 40 is formed this way. The numbers of the first sheet materials 42, the second sheet materials 48 and the third sheet materials 52 are arbitrarily changeable.

With this kind of tack memo pad 40, a message, a memo or the like is written with a pen on the other principal surface of the third sheet material 52 as illustrated in Figs. 6A and 6B. The microcapsules in the pressure-sensitive duplication layers 50 formed on one principal surface of the third sheet material 52 and the second sheet material 48. And this results in duplication of the

aforementioned message or the like written on the clay layers 42 of the second sheet material 48 and the first sheet material 42.

Also, with this kind of tack memo pad 40, too, it is possible to peel off the first sheet material 42, the second sheet material 48 and the third sheet material 52, one at a time, to carry it properly stuck to, for example, a pocketbook. Further, the first sheet material 42, the second sheet material 48 and the third sheet material 52 thus peeled off and stuck to what is convenient to carry can be returned to the tack memo pad after use as a complete set.

Further still, a tack memo pad with a cover 14 may possibly be for animation pictures. This animation type of tack memo pad made up of a plurality of sheets of, for example, paper, is good for the purpose when the individual sheets of paper have printed thereon pictures of motion in playing base ball, tennis, golf or the like serially, that is, frame after frame.

This kind of tack memo pad 60 is made up of rectangular sheet materials 62 as shown in Figs. 7A-7D. The sheet materials 62 may be of, for example, paper, synthetic paper or synthetic resin film.

On one principal surface of of the sheet material 62 there is formed a strip of re-adherent adhesive layer 64

near one longitudinal edge, the width as well as the length of the strip being predetermined. This re-adherent adhesive layer 64 may be formed by application (printing or coating) of a re-adherent adhesive prepared by the use of a weakly adherent adhesive.

The space for animation picture is provided on the back side of each sheet material. Such animation pictures showing motion or changing postures in playing, for example, tennis can be printed by the use of a printing machine of well-known type. These sheets with spaces for animation pictures have, as a whole, a function of showing a serial motion or changing postures in any kind of sports.

Further, a different kind of printed layer 68 as a display portion having another function is formed on the other principal surface of each of a plurality of sheet materials 62 horizontally and near the longitudinal end. This printed layer 68 is formed if a space for display of any advice, caution to be observed or the like is needed. In this space 70 entry of any advice or points of caution to be observed can be made with ease.

On the fore surface of the cover provided for this kind of tack memo pad 60, letters, figures or the like proper for display of the animation pictures contained therein can be easily printed by the use of a printing machine of well-known type.

With this kind of tack memo pad 60, too, the sheet material 62 can be peeled off one at a time for sticking it to where deemed proper. It is also possible to again peel off such sheet material to have it restored to the original position.

Hence, this kind of tack memo pad 60 allows it to peel off only the desired animation pictures to carry them stuck to, for example, a pocketbook. The peeled-off sheet materials 62 can be returned to the tack memo pad as a complete set after use.

Although in the above the present invention has been described in detail, it is apparent that the description is intended for illustration of embodiments of the invention and by no means to be taken as limitation, the spirit and scope of this invention being defined only by the appended claims.

WHAT IS CLAIMED IS:

1. A cover for a tack memo pad made up of a plurality of stuck-together sheet materials with re-adherent adhesive layers formed by application of a re-adherent adhesive on one principal surface of a re-adherent adhesive including:

a constituent sheet material;

a release layer formed by application of a release agent to one principal surface of each of said constituent sheet materials;

an adhesive layer formed by application of an adhesive in a portion including a part where said release layer is formed;

seal substrates formed on the surface of said adhesive layer; and

a printed layer formed by printing on the surface of said release layer, wherein within an area where said release layer is formed partly releasable pieces of seal can be provided.

2. A cover for a tack memo pad according to claim 1, wherein said release layer is formed all over said one principal surface of said constituent sheet material.

3. A cover for a tack memo pad according to claim 1, wherein another printed layer is formed between said release layer and said constituent sheet material.

4. A cover for a tack memo pad according to claim 1,

wherein said plurality of sheet materials are of pressure-sensitive paper.

5. A cover for a tack memo pad according to claim 1, wherein spaces for animation pictures showing a serial motion as a whole are formed on the surface of said plurality of sheet materials.

6. A cover for a tack memo pad according to claim 1, wherein said re-adherent adhesive layer is formed by application of a re-adherent adhesive prepared by the use of a weakly adherent adhesive.

7. A cover for a tack memo pad substantially as described herein with reference to any one or more of the accompanying figures:

8. A method of making a cover for a tack memo pad as described in any one of the preceding claims substantially as described herein with reference to any one or more of the accompanying figures.